Introduction

Ms. Cheryl Giordano
District Director of Instruction-Math/Academy Director
Morris Hills Regional District

Ms. Gina DiDomenico
Student Recruitment & Community Relations
Morris County School of Technology

Ms. Lara Carlson
Mathematics Teacher
Morris Hills High School

Mr. Michael Gowdy
Grants & Satellite Manager
Morris County School of Technology

Ms. Jackie Graulich
Admissions Specialist
Morris County School of Technology
About the Program

• Started in 2000 by Morris County Vocational School District
• County-wide Career & Technical Education Program
• Highly selective – 27.5%
• Recognized as 2nd best high school in the nation by Newsweek in 2016
Academy Basics

• School hours are 7:18 AM – 3:02 PM
• A/B day schedule
• Transportation provided by home district
• A minimum of 170 credits required for graduation
• Passing grade is ≥ 70
• No class rank
• Extra-curricular activities including sports @ Morris Hills HS
Academy Basics (continued)

- **Mandatory** two week summer program for incoming freshman
  - July 13th - July 24th from 8:00 AM to 3:00 PM
  - CAD, AP Physics 1, Math Analysis 1, and English/Social Studies
  - Transportation not provided

- 100 hour internship required senior year
- Opportunities for college credit
- 48 highly motivated students accepted per grade level
Required Academy Coursework

Grade 9
- Academy CAD H
- AP Physics 1
- Academy Math Analysis 1 H
- Academy Geometry H
- Academy English 1 H
- Academy Social Studies 1 H

Grade 10
- Academy Fund. of Engineering H
- AP Chemistry
- Academy Math Analysis 2 H
- Academy Engineering & Product Development 1 H
- Academy English 2 H
- Academy Social Studies 2 H

Grade 11
- AP Biology
- Academy Engineering & Product Development 2 H
- Academy Business Strategies H

Grade 12
- Academy Biotechnology H
- Academy Engineering & Product Development 3 H
- Academy Technical Writing H
- Academy Macroeconomics H
- Structured Learning Experience
2019 SAT Averages
MSE: 1520
State: 1094
National: 1067

Advanced Placement Data 2019
Number of students taking an AP:  26
Total # of AP Tests:  98
% of students scoring 4 or 5:  91%
% of students scoring 3 and above: 98%

Class of 2020 Facts at a Glance
Senior Class Size: 25
Highest GPA: 103.26
Average GPA: 99.70
National Merit Semifinalists: 8

*AMSE average calculated through Naviance and the National/State averages are from 2018
<table>
<thead>
<tr>
<th>Internships</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allergan</td>
</tr>
<tr>
<td>Biomedical Research Institute of NJ</td>
</tr>
<tr>
<td>C and H Dental</td>
</tr>
<tr>
<td>CCM</td>
</tr>
<tr>
<td>Celularity</td>
</tr>
<tr>
<td>Code Ninjas</td>
</tr>
<tr>
<td>Denville Pediatrics</td>
</tr>
<tr>
<td>E&amp;M Pharmacy</td>
</tr>
<tr>
<td>Engineering for Kids</td>
</tr>
<tr>
<td>Enrich Learning Center</td>
</tr>
<tr>
<td>Homewatch CareGivers of Morris</td>
</tr>
<tr>
<td>Honeywell International Inc.</td>
</tr>
<tr>
<td>Israel Biotech Fund</td>
</tr>
<tr>
<td>Jodhpuri Inc.</td>
</tr>
<tr>
<td>Kessler Foundation</td>
</tr>
<tr>
<td>Mathnasium</td>
</tr>
<tr>
<td>Montville Endodontics</td>
</tr>
<tr>
<td>New Jersey Institute of Technology (NJIT)</td>
</tr>
<tr>
<td>Nova Product Design</td>
</tr>
<tr>
<td>Novartis</td>
</tr>
<tr>
<td>Picatinny Arsenal</td>
</tr>
<tr>
<td>Public Health Research Institute Center - Rutgers</td>
</tr>
<tr>
<td>Saint Clare's Health</td>
</tr>
<tr>
<td>Stevens Institute of Technology</td>
</tr>
<tr>
<td>Tara Innovations</td>
</tr>
<tr>
<td>The Maker Depot</td>
</tr>
<tr>
<td>The Smile Center of Denville</td>
</tr>
<tr>
<td>United Pharmacy Network</td>
</tr>
<tr>
<td>URGI-MED Urgent Care</td>
</tr>
</tbody>
</table>
# Class of 2019

## Where are they now?

<table>
<thead>
<tr>
<th>Cornell University</th>
<th>Northeastern University</th>
<th>UC San Diego</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emory University</td>
<td>Rensselaer Polytechnic Institute</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>Georgia Institute of Technology</td>
<td>Rutgers University</td>
<td>University of North Carolina-Chapel Hill</td>
</tr>
<tr>
<td>Harvard College</td>
<td>Stanford University</td>
<td>UPenn- School of Nursing</td>
</tr>
<tr>
<td>Harvey Mudd College</td>
<td>Stevens Institute of Technology</td>
<td>Wharton School at UPenn</td>
</tr>
<tr>
<td>Johns Hopkins University</td>
<td>The University of Texas, Austin College of Engineering</td>
<td>Worcester Polytechnic Institute</td>
</tr>
<tr>
<td>New York University</td>
<td>The University of Texas, Austin College of Natural Sciences</td>
<td>Yale University</td>
</tr>
</tbody>
</table>
Application Criteria

- Successful completion of Algebra 1 by the end of 8th grade
- English, Math, Science, and Social Studies averages from 7th grade
- 2019 Admissions Tests (Accuplacer Writeplacer and NextGeneration Accuplacer Reading and Quantitative Reasoning, Algebra, & Statistics)
- 7th grade PARCC scores
- Interview by invitation only
Applications due November 25th
Application status & updates through the Applicant Status Page
Communication via email
  • Interview mid-January (by invitation only)
  • Acceptances/non-acceptances mid-February
Questions about applications
  • Admissions Handbook
  • Admissions Video
  • Email applicants@mcvts.org
Who is eligible to apply to the Academy for Math, Science, and Engineering?

Any student who lives in Morris County, is in 8th grade, and will have completed an Algebra I course by the end of grade 8.

Is transportation provided?

Yes. Your home school district is required to provide transportation to and from school.

If I am accepted, how will my home district know that I need transportation to AMSE?

MCST will send the address you provide in your application to your home district’s transportation department so that they can arrange for transportation.

Is late busing available?

No, this will be the responsibility of the student/parent/guardian.
Can I participate in extra-curricular activities in my home district?

AMSE students have access to over 80 clubs and 29 sports with multiple levels (freshman, J.V., and Varsity) in Morris Hills High School. In rare occasions, AMSE students have participated in activities in their home district given approval by their home BOE.

Can I apply to more than one Academy?

No.

Do I need to repeat Geometry if I took it in middle school?

No. However, you must take a placement exam and demonstrate proficiency of at least an 80%.

If I took a full year of World Language in middle school can I start in year 2 as a freshman?

Yes. However, you must earn an 85% on a placement exam. The district offers Spanish, French, and German.

Can I take the admissions exams more than once?

No.
FAQs (continued)

What is the interview like?

The interview is a group interview with approximately 6 students per group. Each applicant will answer individual questions, followed by completing a STEM-related task. Students will approach the task individually at first before working together as a group.

What type of student are you looking for?

We want students with a demonstrated passion for math, science, and engineering with good communication skills.

Can students make an appointment to tour/visit the AMSE program during the school day?

With the number of applicants, we cannot accommodate such a request. However, accepted students can “shadow” a student for a day before committing to the program. You will also have an opportunity to tour the facilities tonight.
FAQs (continued)

How will I hear from MCST about my test date and/or interview?

All communication occurs via email. Therefore, it is imperative that you use an email address on your application that you check regularly. Also, be sure to check the Applicant Status Page.

What is the difference between AMSE and the Math/Science Magnet?

- AMSE focuses on STEM (engineering), Magnet completes the AP Capstone (scientific research)
- AMSE has an extended school day (z-block)
- AMSE is an approved CTE program and requires students to complete a 100 hour internship senior year
- AMSE freshman take AP Physics 1, Magnet students take Biology H
- AMSE is for Morris county students only
Questions & Breakout Sessions